OIPE

RAW SEQUENCE LISTING   DATE: 08/21/2001
PATENT APPLICATION: US/09/671,953   TIME: 11:11:34

Input Set : A:\Uco991-2.app
Output Set: N:\CRF3\08162001\I671953.raw

Does Not Comply
Corrected Diskette Needed

```
 3 <110> APPLICANT: Meares, Claude
 4        Chmura, Albert
 5        The Regents of the University of California
 7 <120> TITLE OF INVENTION: Engineering Antibodies That Bind Irreversibly
 9 <130> FILE REFERENCE: 023070-099120US
11 <140> CURRENT APPLICATION NUMBER: US 09/671,953
12 <141> CURRENT FILING DATE: 2000-09-27
14 <150> PRIOR APPLICATION NUMBER: US 60/156,194
15 <151> PRIOR FILING DATE: 1999-09-27
17 <150> PRIOR APPLICATION NUMBER: US 60/208,684
18 <151> PRIOR FILING DATE: 2000-05-31
20 <160> NUMBER OF SEQ ID NOS: 23
22 <170> SOFTWARE: PatentIn Ver. 2.1
```

ERRORED SEQUENCES

```
        442 <210> SEQ ID NO: 16
        443 <211> LENGTH: 360
        444 <212> TYPE: DNA
        445 <213> ORGANISM: Artificial Sequence
        447 <220> FEATURE:
        448 <223> OTHER INFORMATION: Description of Artificial Sequence:V-H sequence of
E--> 449       cha255
        451 <220> FEATURE:
        452 <221> NAME/KEY: CDS
        453 <222> LOCATION: (1)..(360)
W--> 455 <210> SEQ ID NO:
W--> 455 <211> LENGTH:
W--> 455 <212> TYPE:
W--> 455 <213> ORGANISM:
        455 <400> SEQUENCE: 16
E--> 456 gaa gtg acg ctg gtg gag tct ggg gga gac tca gtg aag cct gga ggg   48
        457 Glu Val Thr Leu Val Glu Ser Gly Gly Asp Ser Val Lys Pro Gly Gly
        458 1               5                   10                  15
        460 tcc ctg aaa ctc tcc tgt gca gcc tct gga ttc act tta agt ggt gaa   96
        461 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Ser Gly Glu
        462             20                  25                  30
        464 acc atg tct tgg gtt cgc cag act ccg gag aag agg ctg gag tgg gtc  144
        465 Thr Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
        466         35                  40                  45
        468 gca acc act ctt agt ggt ggt ggt ttc acc ttc tat tca gcc agt gtg  192
        469 Ala Thr Thr Leu Ser Gly Gly Gly Phe Thr Phe Tyr Ser Ala Ser Val
        470         50                  55                  60
        472 aag ggt cgt ttc acc atc tcc aga gac aat gcc cag aac aac ctc tat  240
        473 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Asn Asn Leu Tyr
        474 65                  70                  75                  80
```

Input Set : A:\Uco991-2.app
Output Set: N:\CRF3\08162001\I671953.raw

```
476 cta caa ctg aat agt ctg agg tct gag gac acg gcc ttg tat ttc tgt   288
477 Leu Gln Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Phe Cys
478             85                  90                  95
480 gca agt cat cgg ttt gtt cac tgg ggc cac ggg act ctg gtc act gtc   336
481 Ala Ser His Arg Phe Val His Trp Gly His Gly Thr Leu Val Thr Val
482             100                 105                 110
484 tct gca gcc aaa acg aca ccc cca                                   360
485 Ser Ala Ala Lys Thr Thr Pro Pro
486             115                 120
489 <210> SEQ ID NO: 17
490 <211> LENGTH: 120
491 <212> TYPE: PRT
492 <213> ORGANISM: Artificial Sequence
493 <220> FEATURE:
493 <223> OTHER INFORMATION: Description of Artificial Sequence:V-H sequence of
494          CHA255
496 <210> SEQ ID NO:
496 <211> LENGTH:
496 <212> TYPE:
496 <213> ORGANISM:
496 <400> SEQUENCE: 17
497 Glu Val Thr Leu Val Glu Ser Gly Gly Asp Ser Val Lys Pro Gly Gly
498  1               5                   10                  15
500 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Ser Gly Glu
501             20                  25                  30
503 Thr Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
504             35                  40                  45
506 Ala Thr Thr Leu Ser Gly Gly Gly Phe Thr Phe Tyr Ser Ala Ser Val
507      50                  55                  60
509 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Asn Asn Leu Tyr
510  65                  70                  75                  80
512 Leu Gln Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Phe Cys
513             85                  90                  95
515 Ala Ser His Arg Phe Val His Trp Gly His Gly Thr Leu Val Thr Val
516             100                 105                 110
518 Ser Ala Ala Lys Thr Thr Pro Pro
519             115                 120
```

W--> 493
E--> 494
W--> 496
W--> 496
W--> 496
W--> 496
E--> 497

VERIFICATION SUMMARY   DATE: 08/21/2001
PATENT APPLICATION: **US/09/671,953**   TIME: 11:11:35

Input Set : **A:\Uco991-2.app**
Output Set: **N:\CRF3\08162001\I671953.raw**

```
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:449 M:254 E: No. of Bases conflict, LENGTH:Input:255 Counted:3 SEQ:16
L:449 M:112 C: (48) String data converted to lower case,
L:449 M:252 E: No. of Seq. differs, <211>LENGTH:Input:360 Found:3 SEQ:16
L:455 M:282 W: Numeric Field Identifier Missing, <210> is required.
L:455 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:455 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:455 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:493 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:494 M:252 E: No. of Seq. differs, <211>LENGTH:Input:120 Found:0 SEQ:17
L:496 M:282 W: Numeric Field Identifier Missing, <210> is required.
L:496 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:496 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:496 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:609 M:258 W: Mandatory Feature missing, <220> FEATURE:
```